

**National Heart, Lung, and Blood Institute
SYMPOSIUM ON CARDIOVASCULAR REGENERATIVE MEDICINE
September 13-14, 2004**

Natcher Conference Center
National Institutes of Health
Bethesda, Maryland

Preliminary Program

September 12, 2004

6:00 – 8:00 p.m.

Welcome Reception

Bethesda Marriott Hotel

September 13, 2004

7:00 a.m.

Registration

7:45 a.m.

Welcome

8:00 – 9:30 a.m.

Session I: Stem Cells in Model Organisms and ES Cell Biology

Stem Cell Biology in Drosophila

Allan Spradling, Ph.D.

Therapeutic Potential of ES Cells

George Q. Daley, M.D., Ph.D.

Stem Cell Genomics – Molecular Signatures
of Stem Cells

TBA

9:30 – 9:45 a.m.

General Discussion

9:45 – 10:00 a.m.

Break

10:00 – 12:00 noon

Session II: Tissue Stem Cells

Stem Cell Biology of Skin Regeneration

Elaine Fuchs, Ph.D.

Neuronal Stem Cells

Ron McKay, M.D.

Myocardial Regeneration in Zebrafish

Mark Keating, M.D.

Resident Myocardial Stem Cells

Michael Schneider, M.D.

12:00 – 12:15 p.m.

General Discussion

12:15 – 1:30 p.m.

Lunch and Poster Session

1:30 – 4:15 p.m.

Session III: Hematopoietic Stem Cells and Potential Clinical Applications

Biology and Transplantation of Hematopoietic
Stem Cells

Irving Weissman, M.D., Ph.D.

Applications of Hematopoietic Stem Cells in
Cardiovascular Disease

Margaret Goodell, Ph.D.

	G-CSF Mobilization in Acute MI	Stephen Ellis, M.D.
3:00 – 3:15 p.m.	<i>Break</i>	
	G-CSF Mobilization in Chronic Ischemia	Richard Cannon, M.D.
	Clinical Experience of Bone-Marrow Derived Cells in Acute Infarction	Andreas Zeiher, M.D.
4:15 – 4:30 p.m.	<i>General Discussion</i>	
4:30 – 5:30 p.m.	Session IV: Clinical Trials and Regulation	
	Cell Preparation	Elizabeth J. Read, M.D.
	Bone Marrow Derived Cells Post MI and Their Homing Implications from a Randomized Trial	Helmut Drexler, M.D.
5:45 – 7:00 p.m.	<i>Poster Session and Reception</i>	
7:30 p.m.	<i>Symposium Dinner</i>	

September 14, 2004

8:00 – 10:00 a.m.	Session V: Mesenchymal Stem Cells	
	Mesenchymal Stem Cells	Pam Robey, Ph.D.
	The Biology of MAPCs	Catherine Verfaillie, M.D.
	MSC Modification by Gene Transfer	Victor Dzau, M.D.
	Delivery and Tracking of MSCs <i>In Vivo</i>	Robert Lederman, M.D.
10:00 – 10:15 a.m.	<i>General Discussion</i>	
10:15 – 10:30 a.m.	<i>Break</i>	
10:30 – 12:30 p.m.	Session VI: Skeletal Muscle Stem Cells and Clinical Applications	
	Myogenic Stem Cells	Helen Blau, Ph.D.
	Mechanisms of Stem Cells Recruitment During Skeletal Muscle Regeneration	MA Rudnicki, Ph.D.
	Pre-clinical Experience with Skeletal Myoblast Transfer	Doris Taylor, Ph.D.
	Clinical Experience with Myoblast Delivery	Patrick Serruys, M.D., Ph.D.
12:30 – 12:45 p.m.	General Discussion	
12:45 – 1:45 p.m.	<i>Lunch and Poster Session</i>	
1:45 – 3:45 p.m.	Session VII: Endothelial Progenitor Cells and Tissue Regeneration	

Biology of Endothelial and Pro-angiogenic
Hematopoietic Progenitor Cells

Shahin Rafii, M.D.

Endothelial Progenitor Cells in Injury Models

Stephanie Dimmeler, Ph.D.

Controversies in the Origins of
Endothelial Progenitor Cells

Robert Simari, M.D.

Clinical Experience of Delivery of CD133
Positive Cells to the Myocardium

Gustav Steinhoff, M.D.

3:45 – 4:00 p.m.

General Discussion

4:00 p.m.

Summary and Closing

4/22/04